

Global Open Crankcase Ventilation System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Open Crankcase Ventilation System market size was valued at US\$ 800 million in 2025 and is forecast to a readjusted size of US\$ 1257 million by 2032 with a CAGR of 6.6% during review period.

In 2025, global sales of open crankcase ventilation systems reached 4.2 million units, with an average selling price of US\$185 per unit. Open crankcase ventilation systems refer to ventilation solutions that directly ventilate engine crankcase blow-by gases through external piping and filtration devices, performing oil-gas separation and emission control. They are primarily used in medium and heavy-duty diesel engines, construction machinery, and generator sets to reduce crankcase pressure, decrease oil contamination, and extend engine life. Upstream raw materials include aluminum alloy housings, stainless steel or engineering plastic piping, fiber filter media, rubber seals, and fasteners. On average, a single system consumes approximately 1.8 kg of aluminum alloy, 0.25 kg of filter media, and 0.15 kg of rubber components. Major upstream suppliers are metal processing, filter material, and seal manufacturers, while downstream direct suppliers include engine OEMs, construction machinery manufacturers, marine power system integrators, and aftermarket repair channels. Global total production capacity in 2025 was approximately 5.2 million units, with an average industry gross margin of approximately 28%?35%. In terms of downstream consumption, construction machinery accounts for approximately 38%, heavy trucks and commercial vehicles account for approximately 34%, ships and power generation equipment account for approximately 18%, and the industrial modification and aftermarket accounts for approximately 10%. Driven by increasingly stringent emission regulations, higher requirements for engine reliability, and growing demand for

retrofitting older equipment, open crankcase ventilation systems maintain stable demand in high-load conditions, off-road machinery, and developing markets, and continue to offer business opportunities in the high-efficiency oil-gas separation, modular design, and aftermarket replacement sectors.

From an overall market perspective, open crankcase ventilation systems are currently in a phase of 'stable demand but constrained technological pathways.' On the one hand, in the fields of construction machinery, marine power, mining equipment, and some non-road diesel engines, the harsh operating conditions and limited maintenance resources mean there is still a strong reliance on open solutions that are simple in structure, highly reliable, and have low maintenance costs. The large scale of existing equipment ensures that aftermarket replacement demand is long-term, forming a relatively rigid basic market. On the other hand, increasingly stringent global emission regulations, especially the stricter controls on crankcase emissions in Europe, the United States, and some Asia-Pacific countries, are squeezing the application space of open systems in new engine installations. Growth is primarily driven by replacements of existing equipment, new equipment in developing regions, and scenarios with relatively relaxed regulations.

From a competition and value structure perspective, this market has a moderate technological threshold and a high degree of product homogeneity. Price competition is more pronounced in standardized models, where OEMs have strong bargaining power. However, in high-power, high-displacement engines and customized solutions for special operating conditions, manufacturers with experience in filtration efficiency, durability, and system matching can maintain good profit margins.

Future market opportunities primarily focus on three areas: first, reducing the overall lifecycle cost of the system by improving oil-gas separation efficiency and extending filter life; second, cultivating the aftermarket and retrofit market by providing standardized replacement parts and service packages; and third, in the context of evolving regulations, creating tiered configurations with closed or semi-closed solutions to meet the needs of customers with different emission levels and cost ranges.

Overall, this market segment is unlikely to experience rapid expansion, but it offers stable cash flow and structural upgrade potential, making it suitable for success through scale, distribution channels, and service capabilities.

This report is a detailed and comprehensive analysis for global Open Crankcase Ventilation System market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Open Crankcase Ventilation System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Open Crankcase Ventilation System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Open Crankcase Ventilation System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Open Crankcase Ventilation System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Open Crankcase Ventilation System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Open Crankcase Ventilation System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Solberg MFG, MANN+HUMMEL,

GFT Filters, Parker, Metal Textiles Corporation, Alfdex, PAWELSON, Hengst Filtration, Fleetguard, Perkins Engines, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Open Crankcase Ventilation System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Natural Ventilation

Forced Ventilation

Market segment by Separation Type

Cyclone Separation

Filtration Separation

Compound Separation

Market segment by Integration

External Standalone

Integrated

Market segment by Application

Diesel Engines

Construction Machinery

Others

Major players covered

Solberg MFG

MANN+HUMMEL

GFT Filters

Parker

Metal Textiles Corporation

Alfdex

PAWELSON

Hengst Filtration

Fleetguard

Perkins Engines

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Open Crankcase Ventilation System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Open Crankcase Ventilation System, with price, sales quantity, revenue, and global market share of Open Crankcase Ventilation System from 2021 to 2026.

Chapter 3, the Open Crankcase Ventilation System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Open Crankcase Ventilation System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Open Crankcase Ventilation System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Open Crankcase Ventilation System.

Chapter 14 and 15, to describe Open Crankcase Ventilation System sales channel, distributors, customers, research findings and conclusion.

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